

## **USER MANUAL**

# uSign™ API Reference Guide V1.01

### **Revision History**

Revision	Date	Description of Changes	Ву
Α	12/28/2007	Initial Release	GS

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#### 1.0 Introduction

The ID TECH's new product, uSign™, is an electronic signature capture device with a LCD and pressure sensitive screen. The uSign provides a real-time stylus trace when a user authors their signature. The DLL is into the Host application processor memory and allows access to all the functions needed by an application operating with the uSign. This document provides the information for using the API. A separate document is available for uSign operation and installation.

#### 2.0 The DLL

The {name}.DLL file is fully contained, which means the Host machine does not need any other support files for its function. The design will allow operation on Terminals and PC platforms. The DLL zip folder is available free, on line at www.idtechproducts.com. Sample dll calls are provided to show how to use the API commands in single thread method.

### 3.0 API Functions

The API Functions are listed below. Each function call provides the operation and passes a parameter or parameters as listed. The returned result indicates the function result. 1 indicates a function success; other value indicates the function operation was not successful. See Appendix A for more information of return value.

### 3.1 uSign\_ GetSDKVersion

**Function:** uSign\_GetSDKVersion **Description:** Get DLL version number.

**Prototype:** BYTE uSign\_GetSDKVersion(char \*sVersion, int sLength, int \*rLength)

**Parameters:** sVersion The data of DLL version number

sLength The length of sVersion

rLength The length of get DLL version number

**Return:** Appendix A

**Example:** BYTE res = uSign\_GetSDKVersion(Version,128, &length);

### 3.2 uSign\_OpenPort

**Function:** uSign\_OpenPort

**Description:** Open port for RS232 communication.

**Prototype:** BYTE uSign\_OpenPort(int Comport, long Baud, char Parity, int Stopbit)

Parameters: Baud baud rate

Parity parity bit Stopbit stop bit

ComPort Port for RS232 communication

**Return:** Appendix A

**Example:** BYTE res = uSign\_OpenPort(1,9600, 'E', 1)

#### 3.3 uSign\_ClosePort

**Function:** uSign\_ ClosePort

**Description:** Close port for RS232 communication and USB HID interface

**Prototype:** bool uSign ClosePort()

Parameters: None Return: Appendix A

**Example:** uSign\_ClosePort()

#### 3.4 uSign\_SetBaud

Function: uSign SetBaud

**Description:** Set up baud rate for RS232 communication.

**Prototype:** BYTE uSign\_SetBaud(long Baud)

**Parameters:** Baud (1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600 or 115200)

**Return:** Appendix A

**Example:** uSign\_SetBaud(9600)

### 3.5 uSign\_OpenUSBHID

Function: uSign OpenUSBHID

**Description:** Open the USB HID interface BYTE uSign\_OpenUSBHID()

Parameters: None Return: Appendix A

**Example:** uSign\_OpenUSBHID()

#### 3.6 uSign\_SetParity

**Function:** uSign\_SetParity

**Description:** Set up parity for RS232 communication BYTE uSign\_SetParity(char Parity)

**Parameters:** Parity N (None), O (Odd), E (Even), M (Mark) or S(Space)

**Return:** Appendix A

**Example:** uSign\_SetParity('E')

#### 3.7 uSign\_SetStopBit

**Function:** uSign\_SetStopBit

**Description:** Set up number of stop bits for RS232 communication

**Prototype:** BYTE uSign\_SetStopBit(int Stopbit)

Parameters: Stopbit 1 or 2

**Return:** Appendix A

**Example** uSign\_SetStopBit(1)

#### 3.8 uSign\_GetFirmware

**Function:** uSign\_GetFirmware **Description:** Get firmware version

**Prototype:** uSign\_GetFirmware(char \*sFirmware, int sLength, int \*rLength)

Parameters sFirmware The data of firmware version

sLength The length of sFirmware

rLength The length of getting formware version

**Return:** Appendix A

**Example** BYTE res = uSign\_GetFirmware(Version, 128,&length)

3.9 uSign\_GetSerialNum

Function: uSign\_GetSerialNum Description: Get Serial number

**Prototype:** BYTE uSign\_GetSerialNum(char \*sSerialNum,int sLength, int \*rLength);

Parameters: sSerialNum The data of Serial number

sLength The length of sSerialNum

rLength The length of get Serial number

**Return:** Appendix A

**Example:** BYTE res = uSign\_GetSerialNum(Version,128, &length)

3.10 uSign\_GetSignFormat

**Function:** uSign\_GetSignFormat **Description:** Get Signature data

**Prototype:** BYTE uSign\_GetSignFormat(BYTE s\_Type, char \*Sign\_Data, int

sLength, int \*rLength)

**Parameters:** s\_Type 0x01 SIG format signature data

0x02 CMP format signature data 0x04 RAW format signature data 0x10 BMP format signature data

Sign\_Data Get the signature data sLength The length of Sign\_Data

rLength The length of getting the signature data

**Return:** Appendix A

**Example:** BYTE res = uSign\_GetSignFormat(0x01, Sign\_Data, 8192, &length)

3.11 uSign\_SetSignFormat

**Function:** uSign\_SetSignFormat **Description:** Send signature to uSign

**Prototype:** BYTE uSign\_SetSignFormat(BYTE s\_Type, char \*Sign\_Data, int

sLength)

**Parameters:** s\_Type 0x01/0x81 SIG format signature data,0x81 means to

clear old signature data, while 0x01 not.

0x02/0x82 CMP format signature data,0x82 means to

clear old signature data, while 0x02 not.

0x04/0x84 RAW format signature data,0x84 means to

clear old signature data, while 0x04 not.

0x10/0x90 BMP format signature data,0x90 means to

clear old signature data, while 0x10 not.

Sign\_Data the signature data for sending to uSign

sLength The length of signature data

**Return:** Appendix A

**Example:** BYTE res = uSign\_SetSignFormat(0x01, Sign\_Data, 128)

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### 3.12 uSign\_GetClipArea

Function: uSign GetClipArea

**Description:** Get current clip area the clip area range is (0,0) - (191,63)

**Prototype:** BYTE uSign\_GetClipArea(int \*left, int \*top, int \*right, int \*bottom)

Parameters left The left of clip area

top The top of clip area right The right of clip area bottom The bottom of clip area

**Return:** Appendix A

**Example** uSign\_GetClipArea(10,10,150,50)

#### 3.13 uSign\_SetClipArea

Function: uSign\_SetClipArea

**Description:** Set new clip area the clip area range is (0,0) - (191,63)**Prototype:** BYTE uSign\_SetClipArea(int left, int top, int right, int bottom)

Parameters: left The left of new clip area

top The top of new clip area right The right of new clip area bottom The bottom of new clip area

**Return:** Appendix A

**Example:** uSign\_SetClipArea(10,10,150,50)

### 3.14 uSign\_ClearData

Function: uSign ClearData

**Description:** Clear buffered data and display

**Prototype:** BYTE uSign\_ClearData()

Parameters: None Return Appendix A

**Example:** uSign ClearData()

#### 3.15 uSign\_StartBufCapture

Function: uSign\_StartBufCapture

**Description:** Start capture without data out during script

**Prototype:** BYTE uSign\_StartBufCapture()

Parameters: None Return: Appendix A

**Example:** uSign\_StartBufCapture()

#### 3.16 uSign\_StopBufCapture

Function: uSign StopBufCapture

**Description:** Stop buffered capture without clearing buffered data

**Prototype:** BYTE uSign\_StopBufCapture(long \*pCount) **Parameters:** pCount Buffered points count

**Return:** Appendix A

**Example:** uSign\_StopBufCapture(&pCount)

### 3.17 uSign\_GetSampleRate

**Function:** uSign\_GetSampleRate **Description:** Get current sample rate

**Prototype:** BYTE uSign\_GetSampleRate(int \*rate)

**Parameters:** rate Sample rate

Return: Appendix A

**Example:** uSign\_GetSampleRate(&rate)

#### 3.18 uSign\_SetSampleRate

**Function:** uSign\_SetSampleRate **Description:** Get new sample rate

**Prototype:** BYTE uSign\_SetSampleRate(int rate) **Parameters:** rate Sample rate (0x09 to 0x22)

**Return:** Appendix A

**Example:** uSign SetSampleRate(0x20)

#### 3.19 uSign\_LEDControl

Function: uSign LEDControl

**Description:** Control the red led and green led

**Prototype:** BYTE uSign\_LEDControl(BYTE I\_Mask, BYTE c\_Mask) **Parameters:** I\_Mask Defined as bxxxxxxGR,where 1 means select

c\_Mask Defined as bxxxxxxGR,where 1 means ON and 0 mean OFF

**Return:** Appendix A

**Example:** uSign\_LEDContro(1,1)

3.20 uSign\_TurnRedled

**Function:** uSign\_TurnRedled **Description:** Turn red LED on or off

**Prototype:** BYTE uSign\_TurnRedled(bool f\_Led)

Parameters: f\_Led true Turn red LED on

false Turn red LED off

**Return:** Appendix A

**Example:** uSign\_TurnRedled(true)

3.21 uSign\_GetScriptCount

Function: uSign\_GetScriptCount Description: Get script points count

**Prototype:** BYTE uSign\_GetScriptCount(long \* pCount)

**Parameters:** pCount The script points count

**Return:** Appendix A

**Example:** uSign\_GetScriptCount(&pCount)

3.22 uSign\_StopCapturing

Function: uSign\_StopCapturing
Description: Stop capturing sign

**Prototype:** BYTE uSign StopCapturing()

Parameters: None Return: Appendix A

**Example:** uSign\_StopCapturing()

3.23 uSign\_StartCapturing

Function: uSign\_StartCapturing

**Description:** Start capturing sign using non-buffered mode BYTE uSign\_StartCapturing(BYTE s\_Type)

Parameters: s\_Type 0x00 Start capturing use FBP format 0

0x01 Start capturing use FBP format 1

**Return:** Success no return value and other return value see Appendix A

**Example:** uSign\_StartCapturing(BYTE s\_Type)

### 3.24 uSign\_AddPointHandle

**Function:** uSign\_AddPointHandle

**Description:** Register a call-back function for sending the sign data

**Prototype:** BYTE uSign\_AddPointHandle(PKEY\_FUNC func,LPVOID pParam)

**Parameters:** func The name of call-back function

pParam The currently pointer

**Return:** Appendix A

**Example:** uSign\_AddPointHandle(key\_handle,this)

### 3.25 uSign\_ClearScreen

**Function:** uSign\_ClearScreen

**Description:** Clear display

**Prototype:** BYTE uSign\_ClearScreen()

Parameters: None Return Appendix A

**Example:** uSign\_ClearScreen()

#### 3.26 uSign\_ClearCMPData

**Function:** uSign\_ClearCMPData

**Description:** Reset CMP format mode data **Prototype:** BYTE uSign\_ClearCMPData()

Parameters: None

**Return:** Appendix A

**Example:** uSign\_ClearCMPData()

#### 3.27 uSign\_SimulatePW120

Function: uSign\_SimulatePW120
Description: Simulate PW120 command
Prototype: BYTE uSign\_SimulatePW120()

Parameters: None

Return: Appendix A

**Example:** uSign\_SimulatePW120()

#### 3.28 uSign\_ResetPointsCounter

**Function:** uSign\_ResetPointsCounter

**Description:** Reset the points counter in using **Prototype:** BYTE uSign\_ResetPointsCounter()

Parameters: None

Return: Appendix A

**Example:** uSign\_ResetPointsCounter()

### 3.29 uSign\_InitDevice

Function: uSign\_InitDevice Description: Initialize uSign

**Prototype:** BYTE uSign\_InitDevice ()

Parameters: None Return: Appendix A

**Example:** uSign\_InitDevice ()

#### 3.30 uSign\_GetPW120Version

**Function:** uSign\_GetPW120Version

**Description:** Get PW120 version

**Prototype:** BYTE uSign\_GetPW120Version(char \*sVersion, int sLength, int

\*rLength)

Parameters: sVersion PW120 version

sLength The length of sVersion

rLength The length of PW120 version

**Return:** Appendix A

**Example:** uSign\_GetPW120Version(sVersion,128,&length)

#### 3.31 uSign\_TestPW120Device

**Function:** uSign\_TestPW120Device

**Description:** Test PW120 device.

**Prototype:** BYTE uSign\_TestPW120Device()

Parameters: None

Return: Appendix A

**Example:** uSign\_TestPW120Device()

### 3.32 uSign\_SetCTSControl

Function: uSign\_SetCTSControl

**Description:** Enable or disable CTS control for RS232 interface.

**Prototype:** BYTE uSign\_SetCTSControl(bool f\_CTS)

Parameters: f\_CTS true Enabe

false Disable

**Return:** Appendix A

**Example:** uSign\_SetCTSControl(true)

3.33 uSign\_SetInterval

**Function:** uSign\_SetInterval

**Description:** Set interval between two consecutive points.if exceeded,the display will

disappear

**Prototype:** BYTE uSign\_SetInterval(BYTE Time)

Parameters: Time The interval between two consecutive points

**Return:** Appendix A

**Example:** uSign\_SetInterval(10)

3.34 uSign\_CalibrateDevice

**Function:** uSign\_CalibrateDevice

**Description:** Calibrate uSign

**Prototype:** BYTE uSign\_CalibrateDevice()

Parameters: None

**Return:** Appendix A

**Example:** uSign\_CalibrateDevice()

3.35 uSign\_SetOffset

**Function:** uSign\_SetOffset **Description:** Set the offset position

**Prototype:** BYTE uSign\_SetOffset(int x\_Off, int y\_Off)

**Parameters:** x\_Off X axial

y\_Off Y axial

**Return:** Appendix A

**Example:** uSign\_SetOffset(10,10)

3.36 uSign\_EnableOffset

**Function:** uSign\_EnableOffset **Description:** Enable of disable offset

**Prototype:** BYTE uSign\_EnableOffset(bool f\_Off)

Parameters: f\_Off true Enable

false Disable

**Return:** Appendix A

**Example:** uSign\_EnableOffset(true)

3.37 uSign\_DrawLine

**Function:** uSign\_DrawLine

**Description:** Draw line defined by two points

**Prototype:** BYTE uSign\_DrawLine(int x1, int y1, int x2, int y2)

**Parameters:** x1 The x axial of start point

y1 The y axial of start point x2 The x axial of end point y2 The y axial of end point

**Return:** Appendix A

**Example:** uSign\_DrawLine(10,10,30,30)

3.38 uSign\_DrawRectangle

**Function:** uSign\_DrawRectangle

**Description:** Draw hollow or solid rectangle

**Prototype:** BYTE uSign\_DrawRectangle(bool d\_Type,int x1, int y1, int width, int

height)

**Parameters:** d\_Type true Draw solid rectangle

false Draw hollow rectangle

x1 The x axial of start point y1 The y axial of start point width The width of rectangle height The height of rectangle

**Return:** Appendix A

**Example:** uSign\_DrawRectangle(false,10,10,40,40)

3.39 uSign\_DrawText

Function: uSign DrawText

**Description:** Write characters in uSign

**Prototype:** uSign\_DrawText(int x1, int y1,int sLength, char \*strData)

**Parameters:** x1 The x axial of start point

y1 The y axial of start point sLength The length of strData

strData Write characters

**Return:** Appendix A

**Example:** uSign\_DrawText(10, 10,24, strData)

### 4.0 Return Values

Return Value	Description
0	FAIL
1	SUCCESS
50	NOT_SUPPORTED
99	PARAMETER_ERR
101	BUFFER_LACK
200	PORT_ OPENED
201	PORT_CLOSED

### 5.0 API Example

### **Target Device:**

uSign

Describe:

Support uSign

Platform:

Microsoft Windows XP, Windows 2000, Vista

**DLL Usage** (Microsoft Visual C++ 6.0)

Add uSignKit.lib to Project->Settings->Link->Object/library modules and include the head file uSignKit.h, then call the DLL function directly.

#### **Example for DLL call:**

//include head file

#include "uSignKit.h"

//add Lib(uSignKit.lib):Add uSignKit.lib to Project->Settings->Link->Object/library

```
//Call DLL functions using single-thread method:
//uSign GetSDKVersion
    char Version[128];
   int length = 0;
    BYTE res = uSign GetFirmware(Version, 128,&length);
//uSign_OpenPort
      BYTE res = uSign_OpenPort(1,9600, 'N', 1);
//uSign ClosePort
      bool Flag = uSign_ClosePort();
//uSign SetBaud
      BYTE res = uSign_SetBaud(9600);
//uSign OpenUSBHID
      int res = uSign_OpenUSBHID();
//uSign_SetParity
      BYTE res = uSign_SetParity('N');
//uSign_SetStopBit
      BYTE res = uSign_SetStopBit(1);
//uSign GetFirmware
      char Version[128];
      int length = 0;
      BYTE res = uSign_GetFirmware(Version, 128,&length);
//uSign GetSerialNum
      char SerialNum[128];
      int length = 0;
      BYTE res = uSign_GetSerialNum(SerialNum,128, &length);
//uSign_GetSignFormat
      char Sign_Data[8192];
      int length = 0;
      BYTE res = uSign_GetSignFormat(0x01, Sign_Data, 8192, &length);
```

```
// Call DLL functions using multi-threads methods:
// uSign StartCapturing
      void stdcall key handle (int *buf,int rev,LPVOID pParam)
             CUSignTestDlg* pthis = (CUSignTestDlg*)pParam;
             pthis->p Count = 0:
            memset(pthis->p_Array,0,50);
             pthis->SendMessage(WM SWITCH UPDATE, 0, 0);
             for(int i = 0; i < rev;)
                   pthis->p_Array[pthis->p_Count].x = *buf++;
                   pthis->p Array[pthis->p Count].y = *buf++;
                   i++;
                   i++;
                   pthis->p_Count++;
             pthis->ClearRect(false);
             pthis->SendMessage(WM SWITCH UPDATE, 0, 0);
   static UINT ThreadProc( LPVOID pParam )
   {
             CUSignTestDlg* pthis = (CUSignTestDlg*)pParam;
            int res = uSign StartCapturing(0);
            TRACE("Start capturing result:%d\n", res);
             return 0;
   }
  void CUSignTestDlg::OnStartcapturing()
      // TODO: Add your control notification handler code here
      uSign_AddPointHandle(key_handle,this);
      AfxBeginThread(ThreadProc, this);
  }
```